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TITLE: Dextrinized, saccharide-derivatized oligosaccharides
as bulking agents and energy slow-release agents for
food and feed use.
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PATENT ASSIGNEE(S): Grain Processing Corporation, USA
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004053886	A1	20040318	US 2003-601912	20030623
PRIORITY APPLN. INFO.:			US 2002-390570P	P 20020621

AB Disclosed are saccharide-derivatized oligosaccharides. The derivatized oligosaccharides preferably are prepared by extruding a maltooligosaccharide mixture with a saccharide or mixture of saccharides having a DP ranging from 1 to 4. The products are low in digestibility, and thus in various embodiments are suitable for use as bulking agents, for controlled energy release products, and for other purposes.

IC ICM C07H

CC 17-6 (Food and Feed Chemistry)

ST oligosaccharide dextrinized saccharide deriv food feed additive

IT Color

Decolorization

Dietary energy

Digestibility

Extrusion, nonbiological

Feed additives

Fillers

Food additives

(dextrinized, saccharide-derivatized oligosaccharides as bulking agents and energy slow-release agents for food and feed use.)

IT Acids, uses

RL: CAT (Catalyst use); USES (Uses)

(dextrinized, saccharide-derivatized oligosaccharides as bulking agents and energy slow-release agents for food and feed use.)

IT Oligosaccharides, biological studies

RL: FFD (Food or feed use); RCT (Reactant); BIOL (Biological study); RACT

- (Reactant or reagent); USES (Uses)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT Carbohydrates, reactions
 Maltooligosaccharides
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT Oligosaccharides, biological studies
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (saccharide derivs.; dextrinized, saccharide-derivatized
 oligosaccharides as bulking agents and energy slow-release agents for
 food and feed use.)
- IT Drying
 (spray; dextrinized, saccharide-derivatized oligosaccharides as bulking
 agents and energy slow-release agents for food and feed use.)
- IT 50-21-5, Lactic acid, uses 64-19-7, Acetic acid, uses 77-92-9, Citric
 acid, uses 87-69-4, Tartaric acid, uses 110-17-8, Fumaric acid, uses
 124-04-9, Adipic acid, uses 526-95-4, Gluconic acid 6915-15-7, Malic
 acid 7664-38-2, Phosphoric acid, uses
 RL: CAT (Catalyst use); USES (Uses)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT 77938-63-7, Dextrose monohydrate
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT 50-70-4, Sorbitol, reactions 50-99-7, Dextrose, reactions 69-79-4,
 Maltose 1109-28-0, Maltotriose 9050-36-6, Maltrin 34612-38-9,
 Maltotetraose
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT 67-47-0, 5-Hydroxymethylfurfural
 RL: REM (Removal or disposal); PROC (Process)
 (dextrinized, saccharide-derivatized oligosaccharides as bulking agents
 and energy slow-release agents for food and feed use.)
- IT 9005-25-8D, Starch, hydrolyzates
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (dextrinized; dextrinized, saccharide-derivatized oligosaccharides as
 bulking agents and energy slow-release agents for food and feed use.)
- IT 9004-53-9, Dextrin
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (limit dextrin; dextrinized, saccharide-derivatized oligosaccharides as
 bulking agents and energy slow-release agents for food and feed use.)